

## ABSTRACT

The present invention provides a molding machine and a mold assembly having a quick change volume control insert. The volume control insert can be changed without disassembly of the mold or use of special tools. The molding machine includes a mold, a mold insert, a locking member, and a release member. The mold insert is received in one of the mold halves and further includes a mold detail defining a portion of the mold cavity, and a retention member. A locking member engages the retention member when the mold detail is received within the mold half. The release member, accessible from the exterior of the mold half, and is adapted to disengage the locking member from the retention member, allowing the mold detail to be removed.